

ABSTRACT

A throttle valve spindle (3) is rotatably fixed to a throttle body (1). A recess is provided within the throttle body at one side of the throttle valve spindle along the axial direction of the throttle valve spindle. A holder (6) is fixed to the throttle valve spindle within the recess and has brushes (7) at the opposite side of the throttle valve spindle, which rotates together with the throttle valve spindle. Resistors (12) are mounted on a ceramics circuit board (8) fixed on a housing (12). The housing engages with the recess in such a manner that the resistors contact with the brushes. When the brushes slide on the resistors corresponding to the rotation of the throttle valve spindle, an electric signal is outputted continuously from the resistors.